

# NetherLight Update feb 2007

Glif tech

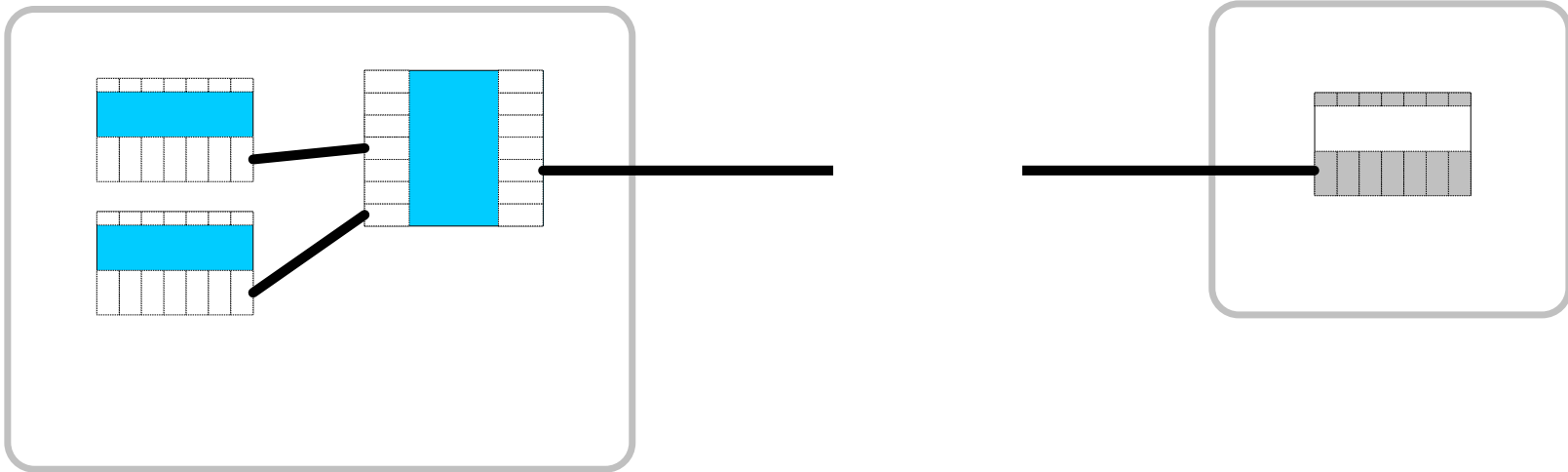
Wouter Huisman

Minneapolis, 14 February 2007



- New lambdas
  - CERN from 2x to 4x 10G
    - New 10G to Caltech
    - New 5G (10GE LAN Phy) Triumph
    - Existing:
      - 10G to Sara
      - 2x GE Triumph
      - 4x GE RAL (UK)
      - 2x GE ASnet
  - MoscowLight 2.5G
    - GE LHC connection to T1 Sara (Atlas)
    - GE LHC connection to T1 CERN (CMS and LHCb)
  - i2CAT (Barcelona, Spain) 10G

- OME6500, HDXc and ERS8600 in Amsterdam
- Active SURFnet equipment in Cern



- New 10G EPL card on OME6500
  - 10GE LAN Phy → 10G WAN Phy at layer 1
    - Via GFP mapping using VCAT, VC4-nv
- Connectivity?
  - Sub lambda granularity,
    - GE as VC4-nv
    - 10GE LAN Phy circuit as VC4-nv
- New platform Nortel ERS8k
  - Provides L2 aggregation function
    - Practical for some projects
  - 10GE LAN Phy → 10G WAN Phy conversion
  - Better granularity for GE ports



Hamburg, Germany  
Interconnect with **Nordunet**  
Planned Q2 2007

Muenster, Germany  
Interconnect with **DFN**

Aachen, Germany  
Interconnect with **DFN**  
Planned Q2 2007

- Data correlator for astronomy located in Netherlands
- Lightpaths for Radio telescopes
- Lightpaths across Geant2
  - First lightpath ordered for Polish radio telescope Torun via Poznan
  - Medicina (Italy) planned
- Other circuits might be using Cross Border fiber or other GLIF infrastructure

- Plan to create an independent Netherlight
- Cost recovery model to allow further development
- Fixed port cost per 1st of September

